

# CITY OF NEW LISBON

*Incorporated by Act of The Wisconsin Legislature, April 9, 1889*  
218 EAST BRIDGE STREET, NEW LISBON, WISCONSIN  
Mailing Address: POST OFFICE BOX D, NEW LISBON, WISCONSIN 53950

05-GF-113  
(4120)

HES  
RSC

CITY CLERK  
(608) 562-5213

ELECTRIC, WATER & SEWER DEPTS.  
(608) 562-3103

January 23, 2003

Mr. Jim Loock, Chief Electric Engineer  
Public Service Commission  
610 N. Whitney Way  
P.O. Box 7854  
Madison, WI 53707-7854

RE: In the Matter of Filing Reporting Requirements for Appropriate Inspection and  
Maintenance, PSC Rule 113.0607(6)

Dear Mr. Loock:

Enclosed for filing are 3 copies of City of New Lisbon's report to the commission,  
submitted every two years, showing compliance with its Preventative Maintenance Plan.

copy  
copy  
copy  
D/Kin

Very truly yours,

*Darin Robison*

Darin Robison  
Line Foreman

Enclosures

RECEIVED  
JAN 29 A 9 12  
ELECTRIC DIVISION

**RECEIVED**

JAN 23 2003

Electric Division

# **TWO YEAR REPORT DOCUMENTING COMPLIANCE WITH THE PREVENTATIVE MAINTENANCE PLAN**

**City of New Lisbon**

**FILING DEADLINE  
FEBRUARY 1, 2003**

December 19, 2000

Darin Robison  
232 Pleasant St.  
New Lisbon, WI, 53950  
608-562-3103

**RECEIVED**

JAN 27 2000

Electric Division

This report format was prepared by the MEUW work group for PSC Rule 113.0607 for use by the 82 municipal electric utilities in Wisconsin and endorsed by PSC staff as meeting the requirements of Rule PSC 113.0607.

## **I Reporting Requirements:** PSC 113.0607(6) states;

Each utility shall provide a periodic report to the commission showing compliance with its Preventative Maintenance Plan. The report shall include a list of inspected circuits and facilities, the condition of facilities according to established rating criteria, schedules established and success at meeting the established schedules.

## **II Inspection Schedule and Methods:**

SCHEDULE:	MONTHLY	ANNUAL	EVERY 5 YEARS
Transmission ( $\geq 69\text{Kv}$ )		X	X
Substations	X	X	
Distribution (OH & UG)			X

**METHODS:** Five criteria groups will be used to complete the inspection of all facilities.

1. IR – infrared thermography used to find poor electrical connections and/or oil flow problems in equipment.
2. RFI - Radio Frequency Interference, a byproduct of loose hardware and connections, is checked using an AM radio receiver.
3. SI – structural integrity of all supporting hardware including poles, crossarms, insulators, structures, bases, foundations, buildings, etc.
4. Clearance – refers to proper spacing of conductors from other objects, trees and conductors.
5. EC – equipment condition on non-structural components such as circuit breakers, transformers, regulators, reclosers, relays, batteries, capacitors, etc.

Distribution facilities will be inspected by substation circuits on a 5 year cycle such that the entire system will be inspected every 5 years. Inspector instructions for inspecting all facilities and forms are included in the plan.

## **III Condition Rating Criteria**

This criterion, as listed below, establishes the condition of a facility and also determines the repair schedule to correct deficiencies.

- 0) Good condition
- 1) Good condition but aging
- 2) Non-critical maintenance required – normally repair within 12 months
- 3) Priority maintenance required – normally repair within 90 days
- 4) Urgent maintenance required – report immediately to the utility and repair normally within 1 week

#### **IV Corrective Action Schedule**

The rating criteria as listed above determine the corrective action schedule.

#### **V Record Keeping**

All inspection forms and records will be retained for a minimum of 10 years. The inspection form contains all of the required critical information i.e. inspection dates, condition rating, schedule for repair and date of repair completion.

#### **VI Reporting Requirements**

A report and summary of this plan's progress will be submitted every two years with the first report due to the Commission by February 1, 2003. The report will consist of a cover letter documenting the percent of inspections achieved compared to the schedule and the percent of maintenance achieved within the scheduled time allowance.

#### **VII Inspected Circuits and Facilities**

Circuit # and description	Substation
<b>Circuit A good condition</b>	<b>East Side good condition but aging</b>
Circuit B good condition but aging	West Side good condition
Circuit C good condition but aging	

Base load and peaking generation, less than 50 megawatts per unit in size, is typically subject to pre-operational checks, in addition to checks and maintenance during and after periods of operation. Emergency generation is test run and maintained every *month* to confirm its operational readiness.

#### **VIII Scheduling Goals Established and Success of Meeting the Criteria:**

“It was this utility’s goal to complete all monthly substation inspections, annual transmission line inspections and to inspect 40% of the distribution system. In addition, we expected to complete all scheduled maintenance resulting from the inspections within the prescribed time periods specified in the rating criteria.

All of the inspection goals were met. 40% of the distribution system was inspected. All maintenance items were found and repaired within the guidelines.

IX Facility condition – rating criteria:

“During the past two years, 40% of the distribution system was inspected and all substation inspections were completed on time. Of the items found requiring maintenance, all were repaired before they were responsible for an outage to customers. Storm related and equipment failure outages have been minimal. Most of the system is less than 10 years old and is in excellent condition.”